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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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RATNERPRESTIA P.O. BOX 980 VALLEY FORGE, PA 19482			EXAMINER KAY, MARY ANNE	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/594,774	<b>Applicant(s)</b> SHINDO ET AL.	
	<b>Examiner</b> MARY ANNE KAY	<b>Art Unit</b> 2426	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 29 September 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 September 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. Claims 1-18 are pending in this application.

### **“Medium” Interpretation**

2. From the specification, the Examiner has determined that the Applicant in accordance with statutory requirements, does not define “medium”. The Examiner interprets the term “medium” to be a computer readable medium (hardware disk) that stores computer instructions.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-7 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sibley et al. (U.S. Patent 7,302,224, referred to as **Sibley**) in view of Shteyn (U.S. PGPub 2002/0144007 A1, referred to as **Shteyn**) in further view of Kinno et al. (U.S. PGPub 2003/0154217 A1, referred to as **Kinno**).

### **Claim 1**

Art Unit: 2426

**Sibley** teaches:

a reception unit that receives a currently broadcasted program content and trigger information for special reproduction of the program content (**Sibley** C3:8-14; Examiner's Note (EN): Set Top Box);

an accumulation unit that accumulates the program content and trigger information (**Sibley** C4:17-20; EN: Examiner interprets that all information is accumulated. ¶ 13. applies);

an accumulated image processing unit that extracts at least a part of the accumulated program content, restructures the program content extracted, and outputs the restructured program content (**Sibley** C4:29-36; EN: All or a portion of the digital content may be rebroadcast).

**Sibley** fails to teach:

based on the mode information from the trigger information;

a metadata interpretation unit that interprets the trigger information of the currently broadcasted or the accumulated program content and outputs mode information for special reproduction;

**Shteyn** teaches:

based on the mode information from the trigger information (**Shteyn** ¶ 0031; EN: Information in the meta-data enables the user to receive information from the set-top box that has been received from a broadcaster);

a metadata interpretation unit that outputs mode information for special reproduction (**Shteyn** ¶ 0031; EN: Information in the meta-data enables

Art Unit: 2426

the user to receive information from the set-top box that has been received from a broadcaster);

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the meta-data information as taught by **Shteyn** providing information content associated with the network.

**Sibley** in view of **Shteyn** fails to teach:

a metadata interpretation unit that interprets the trigger information of the currently broadcasted or the accumulated program content;

**Kinno** teaches:

a metadata interpretation unit that interprets the trigger information of the currently broadcasted or the accumulated program content (**Kinno** ¶ 0026; EN: Interpretation is done by an information delivery server);

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** in view of **Shteyn** with the information delivery server as taught by **Kinno** providing access privileges of the user implemented based on a search of the user database according to the received media control request.

## **Claim 2**

**Sibley** teaches:

Art Unit: 2426

wherein the trigger information includes mode information for performing special reproduction **of at least any one** of interlocked reproduction, replay reproduction, highlight reproduction, and follow reproduction of a currently viewed program content (**Sibley** Fig. 2, el. 16, 62, 79, 86; C4:29-36; EN: All or a portion of the digital content may be “rebroadcast”. ¶ 13. applies).

### **Claim 3**

**Sibley** fails to teach:

a display unit that displays the currently broadcasted or the accumulated program content and the mode information for special reproduction.

**Shteyn** teaches:

the mode information (**Shteyn** ¶ 0031; EN: Information in the meta-data enables the user to receive information from the set-top box that has been received from a broadcaster);

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the meta-data information as taught by **Shteyn** providing information content associated with the network.

**Sibley** in view of **Shteyn** fails to teach:

a display unit that displays the currently broadcasted or the accumulated program content for special reproduction.

**Kinno** teaches:

Art Unit: 2426

a display unit that displays the currently broadcasted or the accumulated program content for special reproduction (**Kinno** Fig. 5, 6, and 7; ¶¶ 0069-0076; EN: Examiner interprets that a display unit would be available to view/search the content. ¶ 13. applies).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** in view of **Shteyn** with the display unit as taught by **Kinno** providing a response to a request from the client to the server for media.

**Claim 4****Sibley** fails to teach:

wherein the accumulated image processing unit extracts, according to a request of mode information for special reproduction from a sub-display device receiving a restructured program content, at least a part of the accumulated program content based on trigger information received after the request or the latest trigger information of the request, and outputs the restructured program content.

**Shteyn** teaches:

according to a request of mode information for special reproduction from a sub-display device receiving a restructured program content (**Shteyn** ¶ 0031; EN: Information in the meta-data enables the user to receive information from the set-top box that has been received from a broadcaster. Examiner

Art Unit: 2426

interprets that there is additional information in meta-data regarding structure of information to be sent to user. ¶ 13. applies).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the meta-data information as taught by **Shteyn** providing information content associated with the network.

**Sibley** in view of **Shteyn** fails to teach:

wherein the accumulated image processing unit extracts at least a part of the accumulated program content based on trigger information received after the request or the latest trigger information of the request, and outputs the restructured program content.

**Kinno** teaches:

wherein the accumulated image processing unit extracts at least a part of the accumulated program content based on trigger information received after the request or the latest trigger information of the request, and outputs the restructured program content (**Kinno** Fig. 16-27; ¶¶ 0118-0170; EN: Media output depends on the access privileges based on the policies of the service provider).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** in view of **Shteyn** with the

content delivery server as taught by **Kinno** providing a response to a request from the client to the server for media.

**Claim 5**

**Sibley** fails to teach:

wherein the accumulated image processing unit processes and outputs a program content according to performance of each sub-display device.  
a sub-display device management unit that manages terminal information including a terminal ID and performance of at least one sub-display device receiving a restructured program content.

**Shteyn** teaches:

wherein the accumulated image processing unit processes and outputs a program content according to performance of each sub-display device  
(**Shteyn** ¶ 0061; EN: Each device may be different).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the specific client configuration as taught by **Shteyn** providing output in accordance with the user's preferences and the preferred service providers.

**Sibley** in view of **Shteyn** fails to teach:

a sub-display device management unit that manages terminal information including a terminal ID and performance of at least one sub-display device receiving a restructured program content.

Art Unit: 2426

**Kinno** teaches:

a sub-display device management unit that manages terminal information including a terminal ID and performance of at least one sub-display device receiving a restructured program content (**Kinno** Fig. 18, el. 1501; ¶¶ 0126-0131; EN: Examiner interprets the user identification as the terminal ID. ¶ 13. applies),

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** in view of **Shteyn** with the management unit as taught by **Kinno** providing a process regarding the information delivery system.

#### **Claim 6**

**Sibley** teaches:

an input unit that receives an input from a user (**Sidley** C3:54-62; EN: Unit has button, switches and a menu. ¶ 13. applies);

**Sibley** fails to teach:

a reception unit that receives PUSH delivery of a program content restructured based on the user select information from the accumulation display device;

a transmission unit that transmits user select information received by the input unit to the accumulation display device;

a display unit that displays the received and restructured program content.

Art Unit: 2426

**Shteyn** teaches:

a reception unit that receives PUSH delivery of a program content restructured based on the user select information from the accumulation display device (**Shteyn** ¶¶ 0017-0018);

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the automatic delivery as taught by **Shteyn** providing privacy and user control on user information content associated with the network.

**Sibley** in view of **Shteyn** fails to teach:

a transmission unit that transmits user select information received by the input unit to the accumulation display device;  
a display unit that displays the received and restructured program content.

**Kinno** teaches:

a transmission unit that transmits user select information received by the input unit to the accumulation display device (**Kinno** ¶ 0020; EN: Client generates request that is received at the information server which implies that the mobile data terminal can transmit. ¶ 13. applies);  
a display unit that displays the received and restructured program content (**Kinno** Fig. 2, el. 100, 101; ¶¶ 0008, 0011; EN: media server delivers media to client terminal which implies that client terminal has a display. Messages

Art Unit: 2426

exchanged with media server indicate that the client terminal has a display. ¶ 13. applies).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** in view of **Shteyn** with the transmitter and display unit as taught by **Kinno** providing for client input to the accumulation unit.

#### **Claim 7**

**Sibley** teaches:

wherein the reception unit further receives index information associating a currently broadcasted program content with an index (**Sibley** C3:56-61; EN: Menu provided. ¶ 13. applies), the accumulation means further accumulates the index information (**Sibley** C3:56-61; EN: Menu provided. ¶ 13. applies), the metadata interpretation unit further interprets the index information (**Sibley** C3:56-61; EN: Menu provided. ¶ 13. applies), and the accumulated image processing unit further extracts at least a part of the program content from the index information based on contents of the trigger information (**Sibley** C3:56-61; EN: Menu provided. ¶ 13. applies),

**Sibley** fails to teach:

restructures the program content extracted based on the mode information, and outputs the restructured program content.

Art Unit: 2426

**Shteyn** teaches:

restructures the program content extracted based on the mode information, and outputs the restructured program content (**Shteyn** ¶ 0031; EN: Information in the meta-data enables the user to receive information from the set-top box that has been received from a broadcaster. Examiner interprets that there is additional information in meta-data regarding structure of information to be sent to user. ¶ 13. applies).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the restructuring as taught by **Shteyn** providing the user to receive the whole content, part of it or a derivative of it per the instructions.

### **Claim 16**

**Sibley** teaches:

a reception unit that receives a currently broadcasted program content and trigger information for special reproduction of the program content (**Sibley** C3:8-14; Examiner's Note (EN): Set Top Box);  
accumulation means that accumulates the program content and trigger information (**Sibley** C4:17-20; EN: Examiner interprets that all information is accumulated. ¶ 13. applies);  
a mobile data terminal comprising:

Art Unit: 2426

an input unit that receives an input from a user (**Sidley** C3:54-62; EN: Unit has button, switches and a menu. ¶ 13. applies);

**Sibley** fails to teach:

outputs mode information for special reproduction;

based on the mode information from the trigger information;

a metadata interpretation unit that interprets the trigger information of the currently broadcasted or the accumulated program content;

an accumulated image processing unit that extracts at least a part of the accumulated program content, restructures the program content extracted, and outputs the restructured program content;

a mobile data terminal comprising:

a reception unit that receives PUSH delivery of a program content restructured based on the user select information from the accumulation display device;

a transmission unit that transmits user select information received by the input unit to the accumulation display device;

a display unit that displays the received and restructured program content.

**Shteyn** teaches:

outputs mode information for special reproduction (**Shteyn** ¶ 0031; EN:

Information in the meta-data enables the user to receive information from the set-top box that has been received from a broadcaster);

based on the mode information from the trigger information (**Shteyn** ¶ 0031; EN: Information in the meta-data enables the user to receive information from the set-top box that has been received from a broadcaster. Examiner interprets that there is additional information in meta-data regarding structure of information to be sent to user. ¶ 13. applies);

a mobile data terminal comprising:

a reception unit that receives PUSH delivery of a program content restructured based on the user select information from the accumulation display device (**Shteyn** ¶¶ 0017-0018);

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the delivery and mode information as taught by **Shteyn** providing privacy and user control on user information content associated with the network and the correct portion of the broadcast.

**Sibley** in view of **Shteyn** fails to teach:

a metadata interpretation unit that interprets the trigger information of the currently broadcasted or the accumulated program content;

an accumulated image processing unit that extracts at least a part of the accumulated program content, restructures the program content extracted, and outputs the restructured program content;

a mobile data terminal comprising:

Art Unit: 2426

a transmission unit that transmits user select information received by the input unit to the accumulation display device;

a display unit that displays the received and restructured program content.

**Kinno teaches:**

a metadata interpretation unit that interprets the trigger information of the currently broadcasted or the accumulated program content (**Kinno** ¶ 0026; EN: Interpretation is done by an information delivery server),

an accumulated image processing unit that extracts at least a part of the accumulated program content, restructures the program content extracted, and outputs the restructured program content (**Kinno** Fig. 16-27; ¶¶ 0118-0170; EN: Media output depends on the access privileges based on the policies of the service provider), and

a mobile data terminal comprising:

a transmission unit that transmits user select information received by the input unit to the accumulation display device (**Kinno** ¶ 0020; EN: Client generates request that is received at the information server which implies that the mobile data terminal can transmit. ¶ 13. applies);

a display unit that displays the received and restructured program content (**Kinno** Fig. 2, el. 100, 101; ¶¶ 0008, 0011; EN: media server delivers media to client terminal which implies that client terminal has a display. Messages exchanged with media server indicate that the client terminal has a display. ¶ 13. applies).

Art Unit: 2426

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** in view of **Shteyn** with the processing and transmitting and display as taught by **Kinno** providing for client input to the accumulation unit and access privileges of the user implemented based on a search of the user database according to the received media control request.

**Claim 17**

**Sibley** teaches:

wherein the accumulation display device as a server transmits a restructured program content to the mobile data terminal via a network (**Sibley** Abstract).

**Claim 18**

**Sibley** teaches:

receiving the currently broadcasted program content and trigger information for special reproduction of the program content (**Sibley** C3:8-14; Examiner's Note (EN): Set Top Box);  
accumulating the program content and trigger information (**Sibley** C4:17-20; EN: Examiner interprets that all information is accumulated. ¶ 13. applies);  
extracting at least a part of the accumulated program content, restructuring the program content extracted based on the mode information, and outputting

Art Unit: 2426

the restructured program content (**Sibley** C4:29-36; EN: All or a portion of the digital content may be rebroadcast),

**Sibley** fails to teach:

based on mode information from the trigger information;

the data terminal comprising the steps of:

receiving PUSH delivery of the program content restructured from the accumulation display device;

**Shteyn** teaches:

based on mode information from the trigger information (**Shteyn** ¶ 0031; EN:

Information in the meta-data enables the user to receive information from the set-top box that has been received from a broadcaster),

the data terminal comprising the steps of:

receiving PUSH delivery of the program content restructured from the accumulation display device (**Shteyn** ¶¶ 0017-0018);

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the delivery and mode information as taught by **Shteyn** providing privacy and user control on user information content associated with the network and the correct portion of the broadcast.

**Sibley** in view of **Shteyn** fails to teach:

displaying the received and restructured program content;

Art Unit: 2426

**Kinno** teaches:

displaying the received and restructured program content (**Kinno** ¶ 0020; EN:  
Client generates request that is received at the information server which  
implies that the mobile data terminal can transmit. ¶ 13. applies).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the  
invention was made to modify the teachings of **Sibley** in view of **Shteyn** with the  
display as taught by **Kinno** providing for client input to the accumulation unit

***Claim Rejections - 35 USC § 103***

5. Claims 8-9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable  
over **Sibley** in view of **Kinno** in further view of Gardere et al. (U.S. Patent 6,678,332,  
referred to as **Gardere**) in further view of Zander et al. (U.S. Patent 6,360,218, referred  
to as **Zander**).

**Claim 8**

**Sibley** fails to teach:

start time data of the corresponding program, and finish time data of the  
corresponding program;  
wherein the index information includes a program ID for identifying a program  
corresponding to the index information;  
an ID for identifying the index information.

**Kinno** teaches:

Art Unit: 2426

start time data of the corresponding program, and finish time data of the corresponding program (**Kinno** ¶ 0010; EN: Start time and Finish time retrieved).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the timeframe as taught by **Kinno** providing information to the client for appropriate scene retrieval.

**Sibley** fails to teach:

wherein the index information includes a program ID for identifying a program corresponding to the index information;

**Gardere** teaches:

wherein the index information includes a program ID for identifying a program corresponding to the index information (**Gardere** C26:23-30; EN: The clip identification attributes are analogous to the attributes in the metadata index attributes. ¶ 13. applies).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the program ID as taught by **Gardere** providing identification of the components in the stream.

**Sibley** fails to teach:

an ID for identifying the index information.

Art Unit: 2426

**Zander** teaches:

an ID for identifying the index information (**Zander** C8:3-5; EN: Record Identifier analogous with index number of program in index),

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the index number as taught by **Zander** providing an ordered index which can be used by the client.

### **Claim 9**

**Sibley** fails to teach:

wherein the index information further includes meaning information describing contents of a program content specified by an index at a keyword level.

**Kinno** teaches:

wherein the index information further includes meaning information describing contents of a program content specified by an index at a keyword level (**Kinno** ¶ 0021).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the description as taught by **Kinno** providing information for the client.

### **Claim 11**

**Sibley** fails to teach:

mode information for identifying the trigger information;

Art Unit: 2426

thereby specifying timing transmitting at least a part of the program content to the mobile data terminal;

wherein the trigger information includes a program ID for identifying a program corresponding to the trigger information;

a specified index ID for identifying specified index information.

**Shteyn** teaches:

mode information for identifying the trigger information (**Shteyn** ¶ 0031; EN:

Information in the meta-data enables the user to receive information from the set-top box that has been received from a broadcaster. Examiner interprets that there is additional information in meta-data regarding structure of information to be sent to user. ¶ 13. applies),

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the meta-data information as taught by **Shteyn** providing information content associated with the network.

**Sibley** fails to teach:

thereby specifying timing transmitting at least a part of the program content to the mobile data terminal.

**Kinno** teaches:

Art Unit: 2426

thereby specifying timing transmitting at least a part of the program content to the mobile data terminal (**Kinno** ¶ 0010; EN: Start time and Finish time retrieved).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the timeframe as taught by **Kinno** providing information to the client for appropriate scene retrieval.

**Sibley** fails to teach:

wherein the trigger information includes a program ID for identifying a program corresponding to the trigger information.

**Gardere** teaches:

wherein the trigger information includes a program ID for identifying a program corresponding to the trigger information (**Gardere** C26:23-30; EN: The clip identification attributes are analogous to the attributes in the metadata index attributes.¶ 13. applies).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the program ID as taught by **Gardere** providing identification of the components in the stream.

**Sibley** fails to teach:

a specified index ID for identifying specified index information.

**Zander** teaches:

a specified index ID for identifying specified index information (**Zander** C8:3-5;  
EN: Record Identifier),

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the index number as taught by **Zander** providing an ordered index which can be used by the client.

***Claim Rejections - 35 USC § 103***

6. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Sibley** in view of **Shteyn** in further view of **Kinno** in further view of **Gardere**.

**Claim 10**

**Sibley** fails to teach:

mode information for identifying the trigger information.

start time specifying an extracted scene, and extraction time, thereby specifying timing transmitting at least a part of the program content to the mobile data terminal;

wherein the trigger information includes one or more of a program ID for identifying a program corresponding to the trigger information.

**Shteyn** teaches:

mode information for identifying the trigger information (**Shteyn** ¶ 0031),

Art Unit: 2426

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the meta-data information as taught by **Shteyn** providing information content associated with the network.

**Sibley** fails to teach:

start time specifying an extracted scene, and extraction time, thereby specifying timing transmitting at least a part of the program content to the mobile data terminal,  
wherein the trigger information includes one or more of a program ID for identifying a program corresponding to the trigger information.

**Kinno** teaches:

start time specifying an extracted scene, and extraction time, thereby specifying timing transmitting at least a part of the program content to the mobile data terminal (**Kinno** ¶¶ 0089-0092).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the times as taught by **Kinno** providing verification of the sequence information according to a request of the controlling media received from client terminal.

**Sibley** fails to teach:

Art Unit: 2426

wherein the trigger information includes one or more of a program ID for  
identifying a program corresponding to the trigger information.

**Gardere** teaches:

wherein the trigger information includes one or more of a program ID for  
identifying a program corresponding to the trigger information (**Gardere**  
C26:23-30; EN: ¶ 13. applies).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the  
invention was made to modify the teachings of **Sibley** with the program ID as  
taught by **Gardere** providing program information identification numbers to allow  
the appropriate viewing according to the authorization of the client.

### ***Claim Rejections - 35 USC § 103***

7. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Sibley**  
in view of **Kinno** in further view of Munetsugu et al. (U.S. Patent 7,134,074, referred to  
as **Munetsugu**).

### **Claim 12**

**Sibley** fails to teach:

wherein the trigger information further includes meaning information describing a  
program content associated with index information at a keyword level;  
grading index information of weight of the meaning information according to a  
degree of importance of the program content.

**Kinno** teaches:

Art Unit: 2426

wherein the trigger information further includes meaning information describing a program content associated with index information at a keyword level (**Kinno ¶ 0021**),

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the keywords as taught by **Kinno** providing information for the client.

**Sibley** fails to teach:

grading index information of weight of the meaning information according to a degree of importance of the program content.

**Munetsugu** teaches:

grading index information of weight of the meaning information according to a degree of importance of the program content (**Munetsugu C5:49-C6:22**; EN: Importance of partial program taken into account during restructuring).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the Importance as taught by **Munetsugu** providing importance information based on criteria concerning the client that is decided at the broadcaster.

***Claim Rejections - 35 USC § 103***

8. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Sibley** in view of Schrader et al. (U.S. PGPub 2002/0166123 A1, referred to as **Schrader**).

**Claim 15**

**Sibley** fails to teach:

wherein the trigger information includes accumulation instruction information  
instructing accumulation of the corresponding program content.

**Schrader** teaches:

wherein the trigger information includes accumulation instruction information  
instructing accumulation of the corresponding program content (**Schrader**  
¶ 0128; EN: Data alert is analogous with instruction to link additional  
programming).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the  
invention was made to modify the teachings of **Sibley** with the instruction to link  
additional programming as taught by **Schrader** providing the programming as a  
package to the client.

***Claim Rejections - 35 USC § 103***

9. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable  
over **Sibley** in view of Hoshino et al. (U.S. PGPub 2004/0249861 A1, referred to as  
**Hoshino**) in further view of **Munetsugu**.

**Claim 13**

**Sibley** fails to teach:

Art Unit: 2426

wherein the accumulated image processing unit adds, to the restructured program content, superimpose information displayed as an image separate from the program content, and changes and restructures time of each partial program content at restructuring the partial program content based on meaning information included in the trigger information and the index information

**Hoshino** teaches:

wherein the accumulated image processing unit adds, to the restructured program content, superimpose information displayed as an image separate from the program content (**Hoshino ¶¶** 0207-208; EN: Metadata converted to video data for superimposition).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the metadata as taught by **Hoshino** providing synthesized video signal for the client.

**Sibley** fails to teach:

changes and restructures time of each partial program content at restructuring the partial program content based on meaning information included in the trigger information and the index information.

**Munetsugu** teaches:

changes and restructures time of each partial program content at restructuring the partial program content based on meaning information included in the

Art Unit: 2426

trigger information and the index information (**Munetsugu** C5:49-C6:22;

EN: Importance of partial program taken into account during restructuring).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the importance as taught by **Munetsugu** providing importance information based on criteria concerning the client that is decided at the broadcaster.

#### **Claim 14**

**Sibley** fails to teach:

wherein the superimpose information is generated using any of meaning information of trigger information, a trigger name, and meaning information of index information.

**Hoshino** teaches:

wherein the superimpose information is generated using any of meaning information of trigger information, a trigger name, and meaning information of index information (**Hoshino ¶¶** 0207-208; EN: Metadata converted to video data for superimposition).

Rationale:

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of **Sibley** with the metadata as taught by **Hoshino** providing synthesized video signal for the client.

### ***Examination Considerations***

10. The claims and only the claims form the metes and bounds of the invention.

“Office personnel are to give the claims their broadest reasonable interpretation in light of the supporting disclosure. *In re Morris*, 127 F.3d 1048, 1054-55, 44 USPQ2d 1023, 1027-28 (Fed. Cir. 1997). Limitations appearing in the specification but not recited in the claim should not be read into the claim. *In re Prater*, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-551 (CCPA 1969) (MPEP p 2100-8, c 2, I 45-48; p 2100-9, c 1, I 1-4).

The Examiner has full latitude to interpret each claim in the broadest reasonable sense. Examiner will reference prior art using terminology familiar to one of ordinary skill in the art. Such an approach is broad in concept and can be either explicit or implicit in meaning.

11. Examiner’s Notes are provided with the cited references to prior art to assist the applicant to better understand the nature of the prior art, application of such prior art and, as appropriate, to further indicate other prior art that maybe applied in other office actions. Such comments are entirely consistent with the intent and spirit of compact prosecution. However, and unless otherwise stated, the Examiner’s Notes are not prior art but a link to prior art that one of ordinary skill in the art would find inherently appropriate.

12. Unless otherwise annotated, Examiner’s statements are to be interpreted in reference to that of one of ordinary skill in the art. Statements made in reference to the condition of the disclosure constitute, on the face of it, the basis and such would be

Art Unit: 2426

obvious to one of ordinary skill in the art, establishing thereby an inherent prima facie statement.

13. Examiner's Opinion: ¶¶ 10.-12. apply. The Examiner has full latitude to interpret each claim in the broadest reasonable sense.

### ***Conclusion***

14. The prior art of record and not relied upon is considered pertinent to Applicant's disclosure.

- Falvo et al., U.S. PGPub 2003/0140343 A1 I
- Nagaoka et al., U.S. PGPub 2002/0137496 A1 I
- Derrenberger, U.S. PGPub 2007/0198414 A1
- Goto, U.S. PGPub 2006/0020991 A1
- Nagaoka et al., U.S. PGPub 2002/0152091 A1 I
- Bisdikian et al., U.S. PGPub 2004/0117857 A1 I
- Hamano et al., U.S. PGPub 2002/0166127 A1 I
- Janik et al., U.S. PGPub 2005/0258806 A1 I
- Slotznick, U.S. PGPub 2005/0282582 A1 I
- Shachar et al., U.S. Patent 7,283,154 B2 I
- Sibley, U.S. PGPub 2001/0039664 A1 I
- Sibley, U.S. PGPub 2001/0039663 A1 I
- Sibley, U.S. PGPub 2001/0039662 A1 I y

Art Unit: 2426

- Sibley, U.S. PGPub 2001/0053700 A1 I
- Ellis et al., U.S. Patent 7,171,174 B I
- Nakatsuyama, U.S. PGPub 2004/0123333 A1 I
- Ter Horst et al., U.S. PGPub 2006/0031288 A1 I
- Mueller et al., U.S. PGPub 2006/0184977 A1 I
- Levy et al., U.S. PGPub 2003/0021441 A1 I
- Kagemoto et al., U.S. PGPub 2003/0003861 A1 I
- Yamada et al., U.S. Patent 6,370,316 B1 I
- Matsui, U.S. PGPub 2001/0018769 A1 I
- Lavalley et al., U.S. Patent 5,737,552 A I
- Nejime et al., U.S. Patent 7,272,843 B1 I
- Li et al., U.S. Patent 6,631,496 B1 I

15. Claims 1-18 are rejected.

### ***Correspondence Information***

16. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to MARY ANNE KAY whose telephone number is (571)270-5677. The Examiner can normally be reached on Monday - Friday, 8:00 AM - 5:00 PM, EST.

As detailed in MPEP 502.03, communications via Internet e-mail are at the discretion of the Applicant. Without a written authorization by Applicant recorded in the

Art Unit: 2426

Applicant's file, the USPTO will not respond via e-mail to any Internet correspondence which contains information subject to the confidentiality requirement as set forth in 35 U.S.C. 122. A paper copy of such correspondence will be placed in the appropriate patent application. The following is an example authorization which may be used by the Applicant:

Notwithstanding the lack of security with Internet Communications, I hereby authorize the USPTO to communicate with me concerning any subject matter related to the instant application by e-mail. I understand that a copy of such communications related to formal submissions will be made of record in the applications file.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Joseph Hirl can be reached on (571)272-3685. Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks,

Washington, D. C. 20231;

Hand delivered to:

Receptionist,

Customer Service Window,

Randolph Building,

401 Dulany Street,

Alexandria, Virginia 22313,

(located on the first floor of the south side of the Randolph Building);

or faxed to:

(571)273-8300 (for formal communications intended for entry).

Art Unit: 2426

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Mary Anne Kay  
Examiner

/Joseph P. Hirl/  
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November 9, 2009